**Pittsburg State University**

**MATH 143 – Elementary Statistics**

**Semester, Year and Instructor Name**

**Office Hours**

**Course Syllabus**

Course delivery method: Lecture, discussion, and problem-solving

**Text:** Elementary Statistics (Ninth edition), by Allan G. Bluman and a student access code for Connect Math Hosted by Aleks

You may use an e-book for the text if you prefer. The e-book and student access code may be bought at the PSU bookstore, or by going to the Connect Math web site <http://www.connectmath.com>

**PREREQUISITE:** Math 019 Intermediate Algebra or one unit of high school algebra

**COURSE GOALS AND OBJECTIVES:** Upon completion of this class, the student should be able to:

* organize raw data into information that is understandable, useful, and easier to analyze through tables, graphs, and numerical calculations
* compute probabilities of both discrete and continuous functions, including the binomial and normal distributions
* calculate confidence intervals and perform hypothesis tests, and use these results to make predictions and draw conclusions about populations
* compute a line of best fit for paired data
* count outcomes using permutations and combinations

**Pitt State Pathways:**

**QUANTITATIVE/ANALYTIC METHODS:** Quantitative literacy and its methods refer to competency in working with numerical data. Students with strong quantitative skills possess the ability to reason and solve problems from a wide array of contexts and everyday life situations. They can create sophisticated arguments supported by objective evidence and can communicate those arguments in a variety of formats (e.g. text, tables, graphs, mathematical equations, etc.) as appropriate. Competency in this element means:

* *Applying* a set of formal tools to interpret, represent, calculate, and analyze quantitative data;
* *Explaining* assumptions and rationale for selecting a mathematical approach to solve a problem;
* *Explaining* assumptions and rationale for selecting a mathematical or formal logical approach to solve a problem;
* *Drawing* and *communicating* conclusions to support decisions

**ATTENDANCE**: It is expected that students will attend class. Except in extreme circumstances, you will not be permitted to pass this class with more than 8 absences. However, I will not drop you from the class. You must drop yourself. (If the 9th absence occurs after the last day to drop, your grade will be an “F”.) There will not be a distinction between “excused” and “unexcused” absences. (Since I take roll and count absences, it is your responsibility to let me know if you come in late.) If you must miss class, get notes from someone, but also talk to me to be sure you are caught up.

**HOMEWORK:** Generally, you should expect to spend about two hours studying outside of class for each hour in class. Studying includes reading the text and reviewing your notes, as well as solving homework problems. Besides your instructor for help, a tutorial room (223 Yates) is available for your use free of charge. Tutors and their schedules are posted on the door.

You can expect an assignment almost every class period. The assignments that will be counted for grades will come from Connect Math Hosted by Aleks (a web-based homework system that accompanies the textbook). I may also recommend some problems from the text.

A calculator (NOT your cell phone) with square and square root capabilities is essential for assignments, quizzes, and exams. Students are expected to bring a calculator to each class, as it will be used in class discussions, exams, and quizzes. Calculators, statistical tables, and notes will NOT be shared during exams and quizzes.

There will be 4 or 5 hourly exams (100 points each) plus a 150-point comprehensive final exam. Exam dates will always be announced at least two class sessions ahead of time. The last hourly exam will be given on Tuesday, December 4. To avoid the need for make-up exams, one score from an hourly exam (NOT the final exam) will be dropped. (In other words, make-up exams will not be given, but your lowest exam score will be dropped.) Final exams are scheduled for the week of December 10 – 14.

There may also be unannounced pop quizzes. No make-up will be given for these quizzes, but one score from a quiz will be dropped. These quizzes will be worth 10 points each.

The final grade will be based on the average of points from the exams, quizzes, boardwork, and notebooks, with an approximate scale of: 90% = A, 80% = B, 70% = C, and 60% = D.

The instructor reserves the right to amend the syllabus as needed.

**\* The PSU's policy on Academic Misconduct can be found at**

<http://www.pittstate.edu/audiences/current-students/policies/rights-and-responsibilities/academic-misconduct.dot>

**\* The Fall 2018 Syllabus Supplement can be found at**

<http://www.pittstate.edu/office/registrar/syllabus-supplement.dot>